

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 1 Flammability = 0 Reactivity = 0

HMIS RATING: Health = /1 Flammability = 0 Reactivity = 0

SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION (1018A)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: HAND DISHWASHING LIQUID

Address: 302 North Fourth Street
St. Joseph, MO 64501

Date Prepared: May 21, 2004

Prepared by: Regulatory Affairs Department

Emergency Telephone No.: (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)

Other information calls: (816) 233-1321 (Ext. 8285)

<http://www.hillyard.com>

SECTION II – INGREDIENTS/IDENTITY INFORMATION**Components**

(Specific Chemical Identity:

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Water	7732-18-5	none	none	N/A	---
Sodium Alkylbenzene Sulfonate	68081-81-2	not established	not established	N/A	---
Ammonium Laureth Sulfate	67762-90-5	not established	not established	N/A	---

SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 188-212°F **Specific Gravity (H₂O = 1):** 25°C = 1.03 & 39°C = 1.03

Vapor Pressure (mm Hg.): 17.6 **Percent Volatile by Volume (%):** 80%

Vapor Density (AIR = 1): 0.64 **Evaporation Rate (ethyl ether = 1):** slower than 1

Solubility in Water: appreciable **Appearance and Odor:** straw colored liquid; pleasant odor

pH (concentrate) = 9-10

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash point: None (T.C.C.) **Flammable Limits:** LEL = N/A UEL = N/A

Extinguishing Media: Water, carbon dioxide, dry chemical or foam

Special Fire Fighting Procedures: N/A

Unusual Fire and Explosion Hazards: N/A

SECTION V – PHYSICAL HAZARDS

Stability: Stable **Conditions to Avoid:** N/A

Incompatibility (Materials to Avoid): Strong oxidizing agents

Hazardous Decomposition Products or Byproducts: Sulfur dioxide and hydrogen sulfide

Hazardous Polymerization: Will not occur **Conditions to Avoid:** N/A

SECTION VI – HEALTH HAZARD DATA

Routes of entry: Inhalation? N/A Skin? N/A Ingestion? N/A

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. May cause eye irritation

2. None known

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No **I.A.R.C. Monographs =** No **OSHA =** No

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

SECTION VI – HEALTH HAZARD DATA cont.

Signs and Symptoms of Exposure: N/A

Medical Conditions Generally Aggravated by Exposure: None known to manufacturer

Emergency and First Aid Procedures: Eyes and skin - In case of contact with concentrate immediately flush with plenty of water for 15 minutes. CALL PHYSICIAN IMMEDIATELY. If swallowed, DO NOT induce vomiting. Give large quantities of water. GET MEDICAL ATTENTION. Never give liquids to an unconscious person.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Pick up with mop or wet vac and wash away with water.

Waste Disposal Method: Wash down sewer with large quantity of water.

Precautions To Be Taken In Handling And Storing: Freezing of product may rupture container. Product shelf life is best retained by storage at 45-100°F temperature.

Other Precautions: Spills of concentrate should be picked up with wet vac and rinsed thoroughly. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR Part 372.

SECTION VIII – CONTROL MEASURES

Respiratory Protection (Specify Type): Not required

Ventilation:

Local Exhaust = Not required **Mechanical (General)** = N/A **Special** = N/A **Other** = N/A

Protective Gloves: Latex gloves suggested **Eye Protection:** Glasses where splashing of concentrate is a concern

Other Protective Clothing or Equipment: None required

Work / Hygienic Practices: Rinse cleaner off skin with water

SECTION IX – TRANSPORTATION INFORMATION

Applicable regulations: 49 CFR = no; IMCO = no; IATA = no

Proper shipping name: Cleaning compound

UN No.: not required **Limited Qty.:** not applicable **Hazard Class** = not applicable

Labels required: not required **DOT Exception:** not applicable

EPA Hazardous waste number / code: not listed

Hazardous waste characteristics:

Ignitability = not applicable; **Corrosivity** = not applicable; **Reactivity** = not applicable

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